



AVELING-BARFORD

690

DUMP TRUCK

PAYLOAD 31,000 lb. 14,062 kg.

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ENGINE

British Leyland AVE31 six-cylinder diesel engine; 187 b.h.p. at 2,000 r.p.m.; bore 5.12 ins. (130 mm.); stroke 5.59 ins. (142 mm.) giving displacement of 690 cu. in. (11,207 c.c.). Max. torque 544 lb.ft. at 1,200 r.p.m. 24-volt electrical system.

CLUTCH

16 in. (406 mm.) diameter hydraulically-operated, single plate clutch. Friction area 268 sq. ins. (1,729 cm²).

TRANSMISSION

The gearbox provides five forward and one reverse speeds all in constant mesh. Hardy Spicer propeller shafts from gearbox to leading axle of bogie and between driving axles.

GEARBOX RATIO

Forward—7.17/1; 4.45/1; 2.54/1; 1.53/1 and 1/1.
Reverse—7.49/1.

SPEEDS

Forward—4.5, 7, 12, 21 and 32 m.p.h.
7.2, 11.2, 19.3, 33.7 and 57.4 k.p.h.
Reverse—4.2 (6.72 k.p.h.).

REAR BOGIE

Two fully floating axles. Double reduction spiral bevel/double helical drive. Overall reduction 9.04 : 1.

Two centrally-pivoted, 8-leaf springs.

FRONT AXLE

Steel I section stamping. Mounted to chassis through two semi-elliptic springs and hydraulic dampers.

BRAKES

SERVICE: 2-shoe air-actuated internal expanding.

Front—15½" x 8" x ½" (394 x 177 x 19 mm.)—146 sq. in. (947 cm²) per drum.

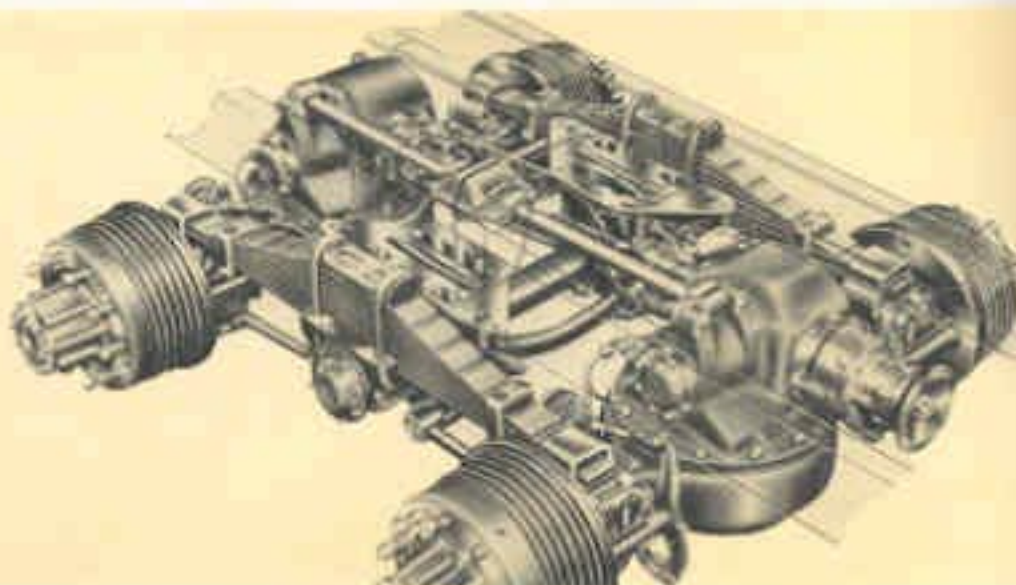
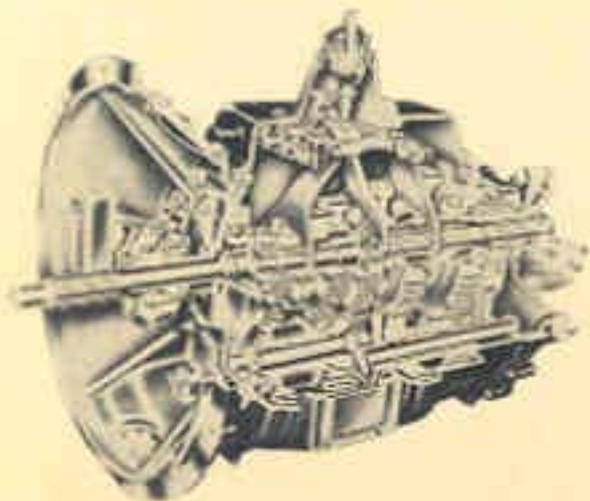
Rear—15½" x 7" x ½" (394 x 178 x 19 mm.)—304½ sq. in. (1,320 cm²) per drum.

PARKING & EMERGENCY: Spring brake chambers on rear bogie, operated by hand control valve in cab.

WHEELS AND TYRES

Front—87-5 fitted with 11.00 x 22—14 ply.

Rear—10.00W fitted with 15.00 x 20—20 ply.



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STEERING

Hydraulically-assisted cam and double roller steering gear. Engine mounted hydraulic pump.

Left-hand or right-hand drive models available.

Turning radius 23 ft. (8.839 m.)

TIPPING

By twin hydraulic, three stage double-acting jacks. Speed valve hoist control gives four positions—lift—hold—power down and float. High pressure filter fitted to reservoir. Maximum tipping angle of 70° reached in 12-14 seconds.

BODY

QUARRY BODY (STANDARD)

Floor of sandwich construction with $\frac{1}{2}$ " (4.8 mm.) bottom plate, 1 $\frac{1}{2}$ " (38 mm.) hardwood sandwich filler and $\frac{1}{2}$ " (6.4 mm.) wear plate with 2" x $\frac{1}{2}$ " (51 x 6.4 mm.) angles welded at 6" (152 mm.) centres. Sides of $\frac{3}{8}$ " (4.8 mm.) steel plate reinforced with channel section vertical members and capped with channel section along top edge. Endplate of $\frac{1}{2}$ " (6.4 mm.) thick steel plate reinforced with channel sections. Cab protection plate of $\frac{3}{8}$ " (4.8 mm.) thick plate with $\frac{1}{2}$ " (6.4 mm.) thick sides extends over cab when body is travelling position.

Maximum payload: 31,000 lb. (14,062 kg.)

Struck capacity: 10 cu. yds. (7.6 m³).

Heaped capacity: 12 cu. yds. (9.1 m³).

HEAVY-DUTY QUARRY BODY

Floor of sandwich construction with $\frac{1}{2}$ " (4.8 mm.) bottom plate, 1 $\frac{1}{2}$ " (38 mm.) hardwood sandwich filler and $\frac{3}{8}$ " (9.5 mm.) wear plate with 2" x $\frac{1}{2}$ " (51 x 6.4 mm.) angles welded at 6" (152 mm.) centres. Sides of $\frac{3}{8}$ " (9.5 mm.) steel plate reinforced with channel section vertical members and capped with channel section along top edge. Endplate of $\frac{3}{8}$ " (9.5 mm.) steel plate reinforced with channel sections. Cab protection plate of $\frac{1}{2}$ " (6.4 mm.) steel plate with $\frac{1}{2}$ " (6.4 mm.) sides. Capacities as for standard body.

COAL CARRIER BODY

Floor of sandwich construction with $\frac{3}{8}$ " (9.5 mm.) bottom plate, 1" (25.4 mm.) hardwood sandwich filler and $\frac{1}{2}$ " (3.2 mm.) wear plate. Sides of $\frac{1}{2}$ " (3.2 mm.) steel plate reinforced with channel section vertical members and capped with channel section along top edge. Endplate of $\frac{1}{2}$ " (3.2 mm.) steel plate reinforced with channel sections. Cab protection plate of $\frac{1}{2}$ " (3.2 mm.) thick plate. Taildoor of $\frac{1}{2}$ " (3.2 mm.) steel plate hinged at top and locked by cam shaped hook. Struck capacity 20 cu. yds. (15.2 m³).

Heaped capacity 24 cu. yds. (18.3 m³).

FRAME

Channel section side members of bolted construction with reinforcement for rear bogie. Five bolted-in cross members and bolted-in bumper as part of frame.

LIGHTING

Two head lamps and two side lamps at front. Stop/tail and reversing lamps at rear.

CAPACITIES

	Imp. galls.	U.S. galls.	Litres
Fuel tanks	40	48	182
Cooling system	8	9.6	36
Hydraulic system	20	24	91
Engine pump	6	7.2	27
Rear bogie (each axle)	8	9.6	36

WEIGHTS

	lb.	kg.
Unladen Total	26,500	11,966
Front axle	10,100	4,581
Rear Bogie	15,400	6,985
Laden Total	58,500	26,528
Front Axle	13,400	6,078
Rear Bogie	43,100	19,550

CAB

Full width steel cab with moulded glass fibre doors. Reverse-sloping fixed windcreens with drop windows in doors. Adjustable driver's seat.

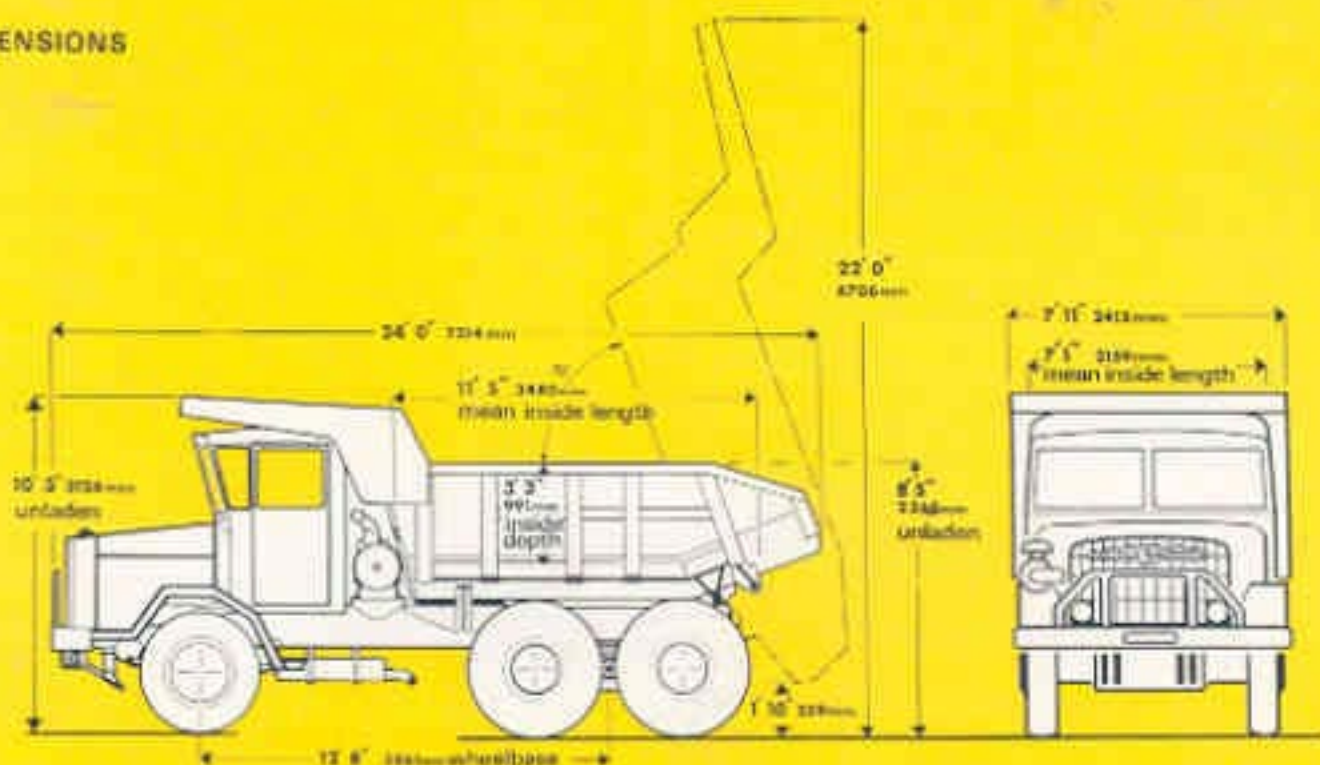


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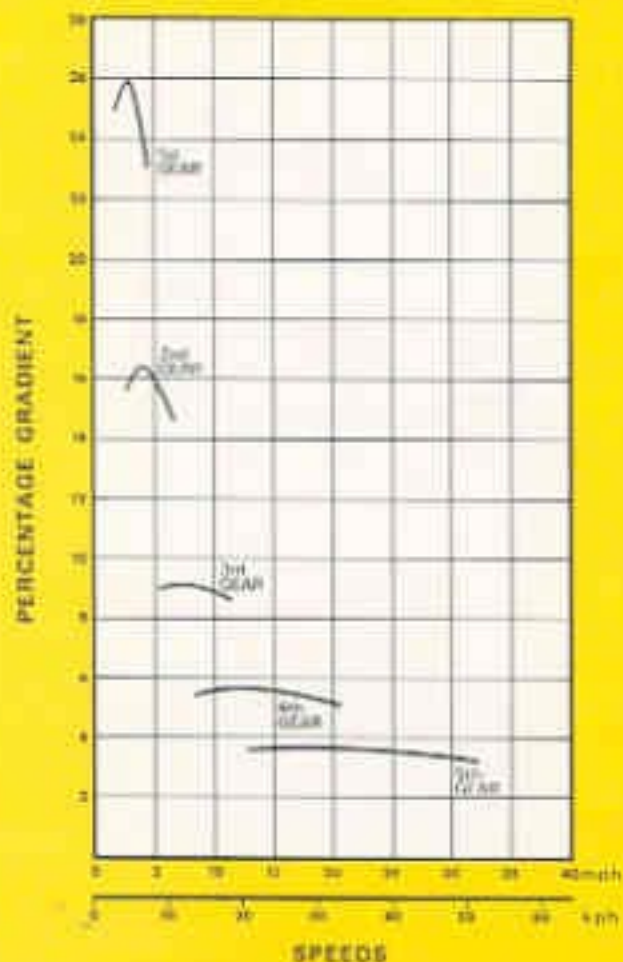
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DIMENSIONS



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